

In the Claims:

Please cancel Claims 1-22. Add new Claims 23-30. A complete listing of the claims are listed below with proper claim identifiers.

1-22. (Cancelled)

23. (New) A capacitor comprising:

a positive electrode of a valve meal,
a dielectric of an anodized film formed on said valve metal, and
a negative electrode including a composite material in contact with said anodized film,

wherein said composite material includes a conductive polymer and an ionic liquid capable of repairing a defect in said anodized film.

24. (New) The capacitor according to claim 23, wherein said conductive polymer includes at least one selected from polypyrrole, polyaniline, polythiophene, and derivatives thereof.

25. (New) The capacitor according to claim 23, wherein said negative electrode further includes a metallic part in contact with said composite material.

26. (New) A method of forming the capacitor of claim 23 comprising the steps of:
preparing a mixture including said ionic liquid and at least one kind of monomer,
making said mixture be in contact with said anodized film, and
causing polymerization in said mixture to convert said at least one kind of monomer into said conductive polymer.

28. (New) A method of forming the capacitor of claim 23 comprising the steps of:
preparing a layer of said conductive polymer, and
impregnating said layer of said conductive polymer with said ionic liquid.

29. (New) A source material kit for forming said composite material to be used in the capacitor of claim 23 comprising, an ionic liquid, and at least one kind of monomer.

30. (New) The source material kit according to claim 29, wherein said monomer is to be used for forming one selected from polypyrrole, polyaniline, polythiophene, and derivatives thereof.